Brainstorming Ideas and Prioritization

Date	15ᵗʰ October 2023
Team ID	PN2023TMIDxxx (N/A, not found)
Project Name	Arming Against Violence - Yolo-Based Weapon Detection
Maximum Marks	4

Reference link:
https://app.mural.co/t/guidedprojectyoloweapondetec7977/m/guidedprojectyoloweapondetec7977/1697190122933/8ae7716d713cd2ec3a183221f7073df6c365a21a?sender=u4478e7ddff30221d8c126879

Brainstorming ideas is a creative process where a group generates a list of potential solutions, suggestions, or concepts for a specific problem or project. Voting in brainstorming involves participants selecting and prioritizing their favorite or most promising ideas from the list to determine which ones should be pursued further.

Brainstorm

Write down any ideas that come to mind that address your problem statement.

Person 1: Charvi Upreti

Portal to allow general public to report suspicious behavior's.	Method to integrate in existing CCTV architecture to deploy it faster.	Real time alerts based on detected threats.

Person 2: Girish K

App that uses areas cctv network to detect weapons and warn users to stay away	Portal to allow general public to report suspicious behavior's.	Open source collaboration on YOLO model for usage my everyone and improvements

Person 3: Sukanth K

Creating systems to ensuring privacy by design in YOLO based weapon detection system	Developing a mobile app that uses the model for weapon detection and can alert users	Bootcamp or classes on self-defense to educate anyone and everyone to defend themeselves from weapons and appropriate steps to follow in case of emergency

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and see if you and break it up into smaller sub-groups.

APP Ideas

Portal to allow general public to report suspicious behavior's.

App that uses areas cctv network to detect weapons using an AI model and warn users to stay away from respective area

Developing a mobile app that uses the model for weapon detection and can alert users

Real Time Threat detection(CCTV)

Real time alerts based on detected threats.

Method to integrate in existing CCTV architecture to deploy it faster.

App that uses areas cctv network to detect weapons using an AI model and warn users to stay away from respective area
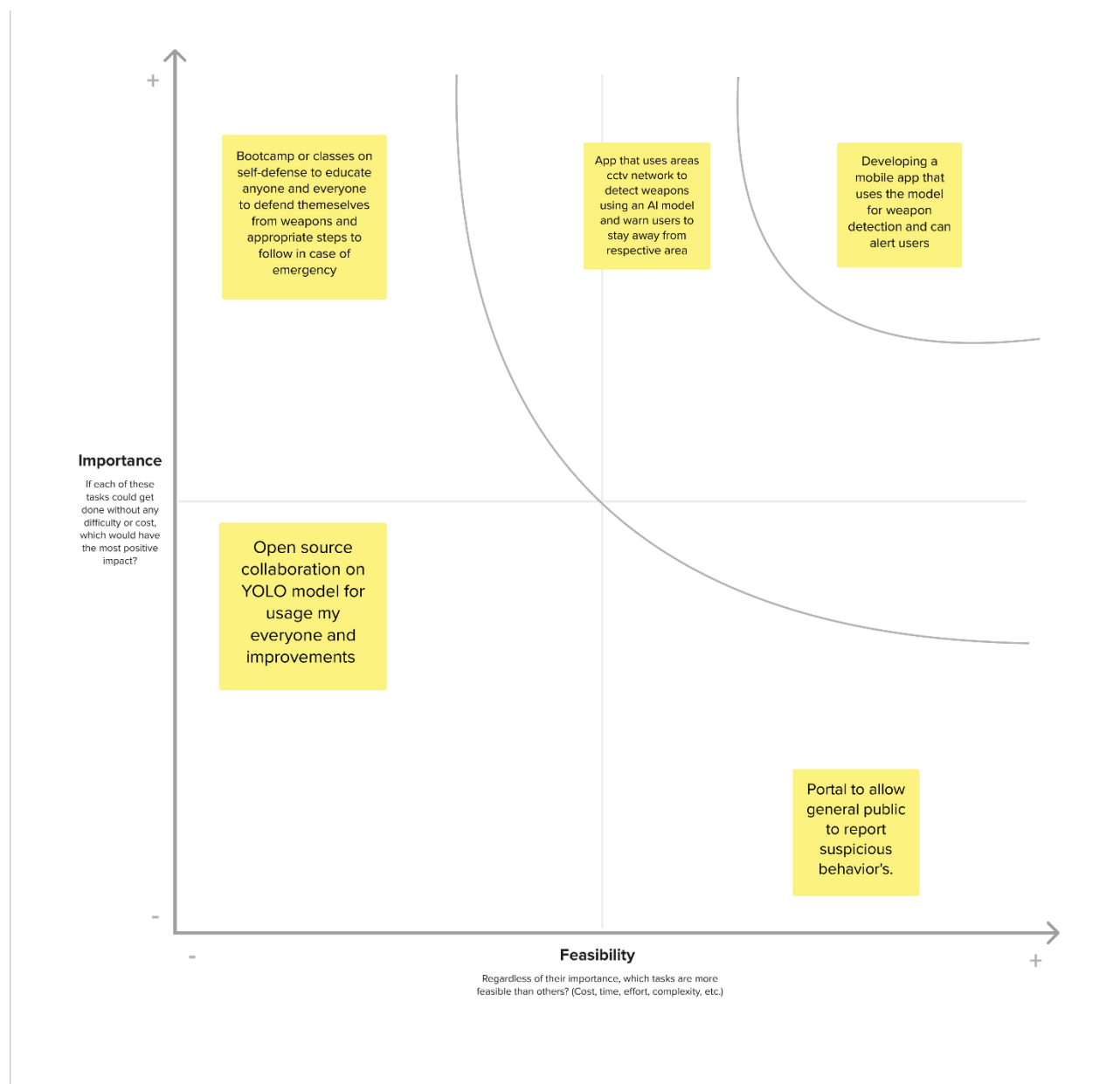
Other Unique Ideas

Open source collaboration on YOLO model for usage my everyone and improvements

Bootcamp or classes on self-defense to educate anyone and everyone to defend themeselves from weapons and appropriate steps to follow in case of emergency

Idea prioritization

Idea prioritization is the process of ranking or assessing ideas based on specific criteria such as feasibility, impact, cost, or strategic importance to determine which ideas should be implemented or pursued first.

Importance

If each of these tasks could get done without any difficulty or cost, which would have the most positive impact?

Bootcamp or classes on self-defense to educate anyone and everyone to defend themeselves from weapons and appropriate steps to follow in case of emergency

App that uses areas cctv network to detect weapons using an AI model and warn users to stay away from respective area

Developing a mobile app that uses the model for weapon detection and can alert users

Open source collaboration on YOLO model for usage my everyone and improvements

Portal to allow general public to report suspicious behavior's.

Feasibility

Regardless of their importance, which tasks are more feasible than others? (Cost, time, effort, complexity, etc.)

The YOLO weapon detection model and its companion app stand out as the top choice as a team faced with selecting the most significant and practical project among multiple possibilities. In our opinion, this technology offers superior significance and viability compared to the alternative ideas. The YOLO model gives us a powerful weapon to successfully address violence that the alternatives cannot equal thanks to its real-time threat identification, unmatched accuracy, and scalability. The YOLO app also encourages community participation in reporting suspicious activity, which distinguishes it from competing ideas and fosters collaboration and inclusivity.

The YOLO model offers a more focused, flexible, and economical strategy when compared to building a citywide CCTV network report and

monitoring system, which can be challenging in terms of cost and complexity. It streamlines the procedure by making use of current surveillance infrastructure. This choice is the best fit for our team because it addresses the problem statement effectively and efficiently.